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### **The registration and monitoring of the the Kalkooei sheep**

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#### **Abstract**

To develop and increase effective population size of kalkooei sheep in herds of markazi province for breeding and increasing yields, some of the traits such as wool color, biometrics, birth and weaning weight until puberty weight, Amount of milk production and compounds, wool production and reproductive parameters of this sheep were determined and measured in three herds of Zarandieh in one year. Data, formatting and editing were stored in Excel and analyzed statistically. The results showed that birth weight of lambs in male and female were 4.2 and 3.9 kg, respectively. The weaning weights of lambs in males and females were 31.2 and 30.3 kg, respectively. The weight of adult ram and ewes were 70.5 and 47.8 kg, respectively. Biometry of body dimensions were: chest circumference 87.3, body length 84.2, body height 70.7 and hip width 25.2 cm. The mean width and length of the Fattail were 27.6 and 21.24 cm, respectively. The milk yield was reported to be 40 kg over a 140-day period. The mean amount of wool crop yield was reported to be 1.2 kg in both sexes. The percentage of lambing, Prolificacy, fecundity and Lamb crop rate of this breed in the herds were 80.7%, 103.10%, 82.6% and 70.7%, respectively.

**Keywords:** Kalkooei sheep, registration and monitoring, genetic resource